

## THERMOSTATIC STEAM TRAPS AND AIR ELIMINATORS TH21

### DESCRIPTION

The TH21 series thermostatic steam traps and air eliminators are specifically designed for use on process equipment such as kettle cookers, sterilizers, food, chemical and laundry equipment.

Connections are female screwed or flanged.

### MAIN FEATURES

Modulating discharge.

Discharges condensate close to steam temperature.

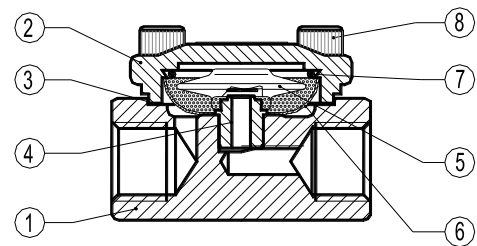
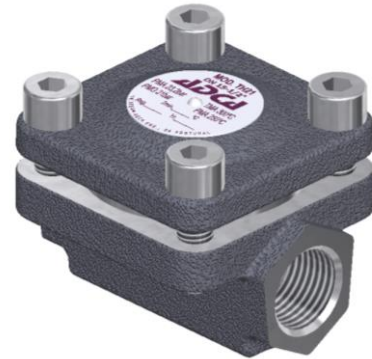
Thermostats for different sub cooling (5 °C to 30 °C).

Excellent air discharge.

Operates on moderate superheated steam.

Built-in strainer.

**OPTIONS:** LC – low capacity.  
**USE:** Saturated steam.  
**AVAIL. MODELS:** TH21, TH21LC.  
**SIZES:** 1/2"; DN 15.  
**CONNECTIONS:** Female screwed ISO 7/1 Rp (BS21).  
 Flanged EN 1092-1 PN25 or ANSI.



BODY LIMITING CONDITIONS		
FLANGED PN25 *	FLANGED ANSI 150 lb **	RELATED TEMP.
ALLOWABLE PRESS.	ALLOWABLE PRESS.	
23,2 bar	15,4 bar	100 °C
20,8 bar	13,8 bar	200 °C
19 bar	12,1 bar	250 °C
17,2 bar	10,2 bar	300 °C

PMO – Max. operating pressure 21 bar;

TMO – Max. operating temperature 250 °C.

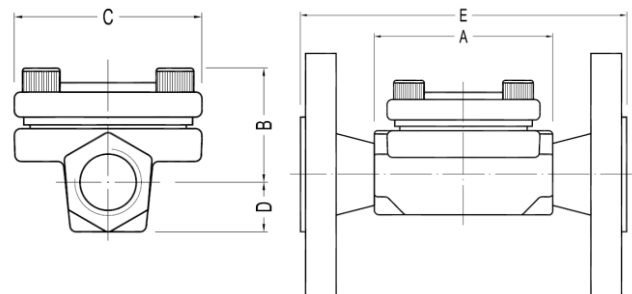
\* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.

Body limiting conditions PN25 or below, depending on the type of connection adopted. Rating PN25 for thread.

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460
2	Cover	P250GH / 1.0460
3	* Gasket	St. steel / Graphite
4	Valve seat	AISI 304 / 1.4301
5	* Thermostatic element	Stainless steel
6	* Strainer screen	AISI 304 / 1.4301
7	* Spring	AISI 302 / 1.4300
8	Bolts	Steel 8.8

\* Available spare parts.

DIMENSIONS (mm)									
SIZE	Screwed					PN16/40		ANSI 150 lb	
	A	B	C	D	WGT. (kg)	E	WGT. (kg)	E	WGT. (kg)
1/2"	70	35	60	15	0,7	130	2,2	150	1,7



FLOW RATE CAPACITY (kg/h)																
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)														
		0,2	0,3	0,5	1	1,5	2	3	4	6	8	10	13	15	20	21
TH21	1/2" – DN 15	70	120	140	255	330	385	455	510	600	670	700	720	750	775	795
TH21LC	1/2" – DN 15	45	55	70	95	125	135	180	200	270	315	330	360	370	405	415

Capacities shown refer to condensate at 10 °C below saturated steam temperature (standard type S thermostat).

Thermostats for 5 °C (type H) and 30 °C (type L) also available. Capacities for cold condensate discharge at 20 °C are two to three times greater.